

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/034958 A1

(51) International Patent Classification⁷: **A61K 31/56**

(21) International Application Number:
PCT/KR2004/002590

(22) International Filing Date: 11 October 2004 (11.10.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0070612 10 October 2003 (10.10.2003) KR

(71) Applicant (for all designated States except US): **SK CHEMICALS, CO., LTD.** [KR/KR]; 600 Jungja 1-dong, Jangan-ku, Suwon-si, Kyungki-do 440-301 (KR).

(71) Applicant and

(72) Inventor: **LEE, Soomin** [KR/KR]; 101-1807 Woosung Apt., Bongcheon 6-dong, Gwanak-gu, Seoul 151-775 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHOI, Wonrack** [KR/KR]; 101-1501 Samsung Raemian Apt., Guro 3-dong, Guro-gu, Seoul 152-849 (KR). **HAN, Chang-Kyun** [KR/KR]; 1019-28, Doksan 4-dong, Geumcheon-gu, Seoul 153-014 (KR). **KIM, Tae Kon** [KR/KR]; SK Chemicals, Co., Ltd. Laboratory, Jungja-dong, Jangan-gu, Suwon-si, Kyungki-do 440-300 (KR). **IM, Guang-Jin** [KR/KR]; 405-902 Hyundai Apt., Sa-dong, Ansan-si, Kyungki-do 425-170 (KR). **JUNG, Chil Mann** [KR/KR]; C-103 Mirae House, 406-12 Yuljeon-dong, Jangan-gu, Suwon-si, Kyungki-do 440-320 (KR). **YUN, Se Jun** [KR/KR];

3-1404 Sunkyung Apt., Daechi 1-dong, Kangnam-gu, Seoul 135-836 (KR). **KWAK, Wie-Jong** [KR/KR]; 3-803 Hanshin Seolae Apt., Banpo 4-dong, Seocho-gu, Seoul 137-044 (KR). **KIM, Bongcheol** [KR/KR]; 314-204 Jugong Apt., Byeoryang-dong, Gwacheon-si, Kyungki-do 427-080 (KR).

(74) Agent: **PAIK, Nam-Hoon**; 14th Fl., KTB Network Bldg., 826-14, Yeoksam-dong, Kangnam-ku, Seoul 135-769 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **TRITERPENE COMPOUNDS WHICH ARE EFFECTIVE ON IMPROVEMENT OF BRAIN FUNCTION**

(57) Abstract: The present invention relates to the triterpene compounds improving in brain functions. In particular, the present invention relates to a novel use of the triterpene compounds represented by the Formula 1 for improving decreased memory and a pharmaceutical composition for improving brain functions comprising the triterpene compounds represented by the Formula 1.

WO 2005/034958 A1